

(Ed. 500, 501, 502, 510, 511, 514, 545). Those electing the research project will enroll in course No. 530: Directed Research, (3), in the field of concentration, and will submit the completed project to the project director. They must also satisfactorily complete an oral examination on the project to be scheduled through the faculty advisor after completion of the project.

3. Electives: six semester hours selected from any field.

THE RESEARCH PROJECT OPTION

In completing requirements for the master of education degree, students electing the research project option must follow these additional procedures:

1. Present to the faculty advisor following admission to candidacy a brief outline of the research project proposed, if this option is chosen. If approved, the candidate is usually assigned a second advisor. For those electing the research project, the completed project must be submitted to the advisors at least eight weeks prior to the commencement at which graduation is expected.
2. Complete satisfactorily an oral examination on the research project. This examination is administered by three members of the graduate faculty designated by the director of graduate studies.
3. Submit three copies of the research project with the signatures of the examiners for filing with the director of graduate studies after completion of the oral examination.

THE MASTER OF ARTS DEGREE IN ENGLISH

- I. Admission to the Program

In addition to the general requirements for admission to the Salisbury State College Graduate Division, outlined above, applicants for admission to the English M.A. Program must have:

- A. The undergraduate English major or its equivalent (thirty semester hours of English beyond freshman English) with a 3.0 grade point average in those undergraduate English courses. Students who fail to meet this requirement should consult the English Department's graduate advisor regarding removal of deficiencies.
- B. Acceptable scores on the Graduate Record Examination aptitude test and advanced test in English. A minimum score of 500 on the advanced test in English is required; however, under special circumstances, the English Department Graduate Committee may admit candidates who do not meet this condition.
- C. Two letters of recommendation from persons qualified to judge the applicant's ability to do graduate work in English.
- D. A written description of their reasons for pursuing English graduate study and their academic goals within the discipline.

- II. Admission to Candidacy

- A. After satisfactory completion of at least 12 semester hours and not more than 18 semester hours, under Plan A or B as indicated below, the student should apply for admission to candidacy for the master of arts degree. Graduate students are required to earn a minimum of 15 semester hours after admission to candidacy except in special cases authorized by the director of graduate studies.

- III. Course Requirements

- A. To be eligible to receive the M.A. in English, the graduate student must complete thirty-three (33) semester hours. Included in the thirty-three hours must be a minimum of six semester hours (of English) at the 500 level.
- B. The graduate student must maintain a cumulative average of 3.0 (B) or higher on all courses and must have no grades below C. After completion of the first three courses (9 semester hours) in the program, any final grade lower than C will disqualify the student from continued enrollment in the program.
- C. The student may choose either Plan A or Plan B in meeting degree requirements. All course selections must be approved by the faculty advisor.

1. Plan A (non-thesis)

- a. At least 24 semester hours of English at the 400-500 level.
- b. Up to nine semester hours at the 400-500 level in one supporting discipline, e.g., education, history, modern languages, philosophy, psychology, sociology, or communication arts.

2. Plan B (thesis)

- a. At least 21 semester hours of English at the 400-500 level.
- b. Up to 9 semester hours in one supporting discipline listed under Plan A above.
- c. Three semester hours thesis credit (English 531).

- IV. Procedures of the Academic Program

- A. The student may elect to concentrate in an area of emphasis compatible with his needs and with the availability of course offerings outlined in the department's course scheduling sequence. This area may be a period of British, American, or comparative literature, a genre of literature, or the study of language. Within the departmental course offerings he may elect also a subordinate emphasis upon folklore or film.
- B. At the time of admission to candidacy (see Section II. above) or thereafter, though certainly before the candidate enters his final semester of course work, he or she, whether engaged in Plan A or Plan B, must consult the department's graduate advisor to determine a faculty panel which will advise the candidate and ultimately evaluate his independent study report. With the aid of the panel and subject to its approval, each candi-

date will then formulate for his own investigation a reasonably circumscribed question designed to synthesize some of the materials in his area of concentration or to probe an area of interest more deeply than he was able to in course work. Once the panel has approved the question, the student may complete his response in an examination setting as soon as he feels prepared—though not later than three months after course work has been completed.

The candidate's faculty panel shall be composed of three faculty members. One shall be the major professor (advisor). At least one of the other two members of the committee will be a member of the English Department Graduate Faculty.

In borderline cases in which there is doubt about the candidate's mastery of any portion of his report, the student will be examined orally. The oral examination will occur after notification of the student and after adequate time for review.

THE MASTER OF ARTS DEGREE IN HISTORY

- I. Requirements for Admission to Candidacy:

- A. At least fifteen semester hours in history from the junior-senior level or above, including a course in historiography. This preparation is designed to serve as a foundation for graduate study in history and is therefore ineligible for inclusion in the thirty-three semester hours normally required for the degree. Students lacking this preparation must make up the deficiency prior to becoming eligible for admission to candidacy.

- B. Submission of an official copy of scores on the Graduate Record Examination Aptitude Test and Advanced Test in History. In special circumstances, the chairman of the History Department may permit the student to take the advanced test in another field. Applications for the GRE are available on request to the Graduate Admissions Office and test scores should be forwarded to that office directly from Educational Testing Service.

- C. Submission of the completed application for admission to candidacy to the director of graduate studies for action. This application should be submitted after completion of the requirements indicated above and at least twelve semester hours of graduate degree credit and not later than having completed eighteen hours with cumulative average of B or higher and no grade below C.

Graduate degree students are required to earn a minimum of fifteen semester hours of graduate credit after admission to candidacy except in special cases authorized by the director of graduate studies.

- II. Course Requirements: A minimum of thirty-three semester hours, with cumulative average of B or higher and no grade below C, is required for the master of arts degree in history. At least fifteen semester hours of this work must be taken in courses at the 500-level, and this 15 hours must include at least nine semester hours at the 500-level in history (i.e., courses available exclusively for graduate credit).

Students admitted to the M.A. program in history may choose either Plan A or Plan B for meeting course requirements. All course selections must be approved by the History Department faculty advisor.

- Plan A:

1. Eighteen semester hours in history
2. Nine semester hours in one minor field (education, English, geography, psychology, etc.)
3. Six semester hours: thesis in history

- Plan B:

1. Twenty-four semester hours in history
2. Nine semester hours in one minor field (education, English, geography, psychology, etc.)

- III. Additional requirements: All candidates for the M.A. in history must satisfactorily complete both a written and an oral examination near the completion of their program requirements demonstrating proficiency in the areas of study undertaken. Students should contact the chairman of the History Department in this regard after completion of twenty-one semester hours of graduate credit.

THE MASTER OF ARTS DEGREE IN PSYCHOLOGY

- I. Admission to the Program

The Department of Psychology offers programs leading to the master of arts degree with areas of concentration in school psychology, counseling psychology and general psychology. In addition to the general requirements for admission to graduate study, students seeking admission to the master of arts program in psychology must meet the following requirements:

- A. Completion of the departmental application for admission to the M.A. program in psychology.
- B. Completion of requirements for an undergraduate major, or equivalent, in psychology, or related area (e.g. social work, sociology, education) with acceptable grade point averages in both the major field and overall baccalaureate program. Students without this preparation and/or whose grade point averages fall below acceptable levels may, with good reason, petition the Psychology Department Graduate Committee for admission, and, if successful, may be provisionally admitted to the program while making up deficiencies.

C. Completion of undergraduate courses in Psychological Statistics, Experimental Psychology and Psychology of Learning are required since these courses provide a foundation for graduate study in this field. Students without this foundation may be conditionally admitted to the program but must make up the deficiency prior to formal admission to the degree program.

D. Submission by an appropriate agency of acceptable scores on the Miller Analogies Test. Testing arrangements may be made through the Psychology Department Office on campus.

E. Submission of three letters of reference on standardized forms, available in the admissions packet, from individuals familiar with the applicant's qualifications for graduate study.

II. Admission to Candidacy: After satisfactory completion of at least 12 semester hours, but not more than 18 semester hours, in the master's degree program, the student should apply for admission to candidacy for the master of arts degree. Graduate students are required to earn a minimum of 15 semester hours of graduate credit after admission to candidacy except in special cases authorized by the director of graduate

studies.

III. Course Requirements: A minimum of thirty-six semester hours, approved by the departmental advisor and student's committee and taken in the prescribed sequence according to the area of concentration selected, with grade point average of B or better.

IV. Additional Requirements

A. Satisfactory completion of a written comprehensive examination. Scheduling of the examination is by written request of the student, submitted at least one month prior to the planned examination date and signed by the advisor. Students failing to complete this examination satisfactorily will be entitled to one re-examination only, to be scheduled after an appropriate time for review.

B. Satisfactory completion of a thesis for three hours credit (Psychology 531). The thesis topic must be approved by a committee of three faculty members selected by the student and his advisor. Upon completion of the thesis, an oral examination will be conducted by the student's thesis committee. Guidelines for thesis preparation are provided by the department.

COURSES OF INSTRUCTION

ART

490. INDEPENDENT STUDY

1 to 3 hours credit

A course to provide directed study in one or a combination of departmental disciplines. Only six (6) hours credit may be applied toward any Salisbury State College graduate degree. Students must furnish their own materials. **Prerequisite:** Graduates must receive approval of the departmental chairman.

NOTE: See Education Department listings for course in Art Education (Education 495).

BIOLOGY

415, 416. RESEARCH IN BIOLOGY

3 hours credit each

Independent study, in which each student conducts his own research project under the supervision of a member of the faculty.

Prerequisite: Approval of project by supervisor. Normally reserved for advanced undergraduates and graduates. **One hour of formal instruction each week and two additional hours to be arranged individually.**

418, 419. BIOLOGY SEMINAR

1 hour credit each

Discussions concerning timely topics in biology and related fields. Includes direct student participation and faculty lectures. **Prerequisite:** Consent of the instructor. **One hour per week.**

422. GENERAL PHYSIOLOGY

3 hours credit

Encompasses the underlying physical and chemical principles of vital activity. Basic mechanisms are emphasized. The laboratory will include techniques in physiological investigation. **Prerequisite:** Biology 201, 204 and consent of instructor. **Two hours lecture and three hours laboratory per week.**

423. ELECTRON MICROSCOPY

3 hours credit

Introduction to the principles and techniques of electron microscopy in biology, including tissue fixation, embedding, ultramicrotomy, microscopy and photography. **Prerequisites:** Biology 101 and 102 and completion of the biology core program or equivalent. **Two hours lecture and three hours laboratory per week.**

430. PLANT PHYSIOLOGY

4 hours credit

Advanced study of the physiological mechanisms utilized by plants with special reference to higher phyla. **Prerequisites:** Biology 203. A minimum of eight hours of chemistry is highly recommended. **Two hours lecture and 4 hours laboratory per week.**

435. CYTOLOGY

3 hours credit

A discussion of the structure and function of the cell and its components. Laboratory work is based on light microscopy and electron microscopy. **Prerequisites:** Biology 101 and 102 and completion of the biology core program or equivalent. **Two hours lecture and three hours laboratory per week.**

490. SPECIAL TOPICS IN BIOLOGY

1-3 hours credit

A study of a specific area of biological science. The topic will vary from semester to semester. This course may be taken twice, under different course subtitles recorded with the registrar. **Prerequisites:** Biology 101 and 102 and approval of the instructor.

501. MODERN CONCEPTS IN BIOLOGY

3 hours credit

A study of the most recent developments in biology, with special emphasis on genetics, animal behavior and sociobiology. This course may be taken twice, under different course subtitles recorded with the registrar.

Prerequisites: Biology 101 and 102 and completion of the biology core program or equivalent. **Three hours lecture per week.**

502. BIOLOGY AND ENVIRONMENT

3 hours credit

A study of organisms as integral parts of their environments, including field studies involving applications of environmental principles. **Prerequisites:** Biology 101 and 102 and completion of the biology core program or equivalent. **Two hours lecture and two hours laboratory per week.**

503. CONTEMPORARY CELL BIOLOGY

3 hours credit

An intensive study of the latest findings in cell biology, with application to the pressing problems of today. **Prerequisites:** Biology 201, 202 and at least one year of chemistry. **Three hours lecture per week.**

504. PERSPECTIVES IN MODERN GENETICS

3 hours credit

Intensive study of modern genetics for the advanced student. Findings in molecular, cellular and developmental genetics will be related to classical genetic theory and current problems. **Prerequisites:** Biology 201, 202 and at least one year of chemistry. **Three hours lecture per week.**

CHEMISTRY

(See Physical Sciences)

COMMUNICATION ARTS

403. CREATIVE DRAMATICS 3 hours credit

Emphasis is centered upon the manner in which creative dramatics assist in the growth of the child. The course considers creative dramatics as a motivating factor in the teaching and learning process. **Three hours per week.**

410. SPEECH CORRECTION AND THE CLASSROOM TEACHER 3 hours credit

A study of childhood speech and hearing disorders and methods for the classroom teacher in effectively dealing with student referral, the promotion of good speech habits, and therapeutic reinforcement. **Three hours per week.**

412. DEVELOPMENTAL DISABILITIES IN SPEECH AND LANGUAGE ACQUISITION 3 hours credit

A study of speech and language development and perceptual disorders which affect language comprehension and use. Communication problems resulting from the delay, breakdown, or misuse of language function will be considered. **Three hours per week.**

430. SPECIAL TOPICS IN COMMUNICATION 1-3 hours credit

Intensive study of a selected topic in speech, communication studies, or theatre. This course may be taken twice, under different course subtitles recorded with the registrar.

Prerequisite: Consent of instructor.

500. ORAL READING AND THE TEACHING OF LITERATURE 3 hours credit

Designed to lead the student to an awareness of literature through the performing self, to reinforce the concept that one's physiological and psychological processes are bound together in the act of understanding what stories and poems mean. **Three hours per week.**

510. SEMINAR IN INTERPERSONAL COMMUNICATION 3 hours credit

The investigation of speech-communication from the point of view of conflict, manipulation, barriers and breakdowns; factors which undermine human potential for optimum reciprocal social intercourse. **Three hours per week.**

EDUCATION

405. THE LAW AND PUBLIC EDUCATION 3 hours credit

A study of school law which affects the teacher and the public school. The nature and scope of school law are considered as generally applied to the purposes and functions of the school system. **Three hours per week.**

407. APPLIED AUDIO-VISUAL METHODS IN TEACHING 3 hours credit

A survey of instructional technology, media and methods. The identification and critique of concepts, principles, and issues re: the application of I.T. and media to the curriculum. **Three hours per week.**

408. CHILDREN'S LITERATURE 3 hours credit

A study of the works of important writers and artists in each of the major types of

children's books (fairy tales, picture books, realistic fiction, fantasies, biographies, etc.). Historical trends and methods of incorporating children's literature into the elementary program are included. **Three hours per week.**

409. LITERATURE FOR ADOLESCENTS 3 hours credit

A study of literature written specifically for and about the contemporary adolescent with emphasis on methods of teaching aspects of it to build adolescent appreciation for the more established literary selections found in secondary school curriculum. **Prerequisite:** At least three courses in literature beyond English 102 are recommended or permission of the instructor. **Three hours per week.**

412. CURRICULUM AND METHODS IN ELEMENTARY SCHOOL PHYSICAL EDUCATION 3 hours credit

Principles of curriculum construction, selection and organization of materials. Lesson planning and teaching methods. Survey of current trends. **Three hours per week.**

413. TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL 3 hours credit

Selection, organization, presentation, and evaluation of social studies material in the elementary school. Consideration of recent theory and method in improving teaching of the social studies. **Three hours per week.**

414. PRODUCING GRAPHIC MATERIALS IN EDUCATION 3 hours credit

Identification of basic principles and procedures used in planning and producing graphic instructional materials. Appropriate activities also provided to integrate media techniques into participant's professional skills. **Three hours per week.**

415. USING PHOTOGRAPHY IN EDUCATION 3 hours credit

Emphasis on increasing competencies in the development of photographic instructional materials. Students will identify basic principles and practices of photography and become involved in activities that apply photographic technique to instructional material development. **Three hours per week.**

416. FILM MAKING IN EDUCATIONAL SETTINGS 3 hours credit

This course is designed to foster film making skills in school situations. Students work in teams in planning and producing super 8 mm films. Emphasis given to animation, live-action, and montage techniques. **Three hours per week.**

417. TEACHING LANGUAGE ARTS IN THE ELEMENTARY SCHOOL 3 hours credit

Developing and demonstrating practical methods of teaching language skills in the elementary school. Emphasis is on creative, inductive, modern techniques. **Three hours per week.**

418. TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL 3 hours credit

Selection, organization, presentation and evaluation of mathematics materials in the elementary school classroom. Emphasis on recent research in teaching and adapting programs of the new mathematics. **Three hours per week.**

419. TEACHING MUSIC IN THE ELEMENTARY SCHOOL 3 hours credit

Techniques for teaching music in the elementary school; study of the child voice; appropriate singing, listening, rhythmic, instrumental and creative activities; remedial work for poor singers, activities for musically talented children; comprehensive overview of music materials and their application to the elementary school curriculum. **Prerequisite:** Music 200, (or equivalent, or approval of instructor). **Three hours per week.**

422. FOUNDATIONS OF READING (Secondary Education) 3 hours credit

Includes analysis of the reading process, assessment of content materials, reading in content areas, word attack skills, vocabulary and comprehension development, corrective reading, and study strategies. Intended for personnel in middle, junior, and senior high schools. **Three hours per week.**

427. CLASSROOM ANALYSIS AND CORRECTION OF READING DIFFICULTIES 3 hours credit

Includes causes and prevention of reading disabilities, strategies for the collection and analysis of reading behavior, and instructional programs for correction. Intended for teachers interested in reading disabilities, but who do not wish to specialize in Reading Education. **Prerequisite:** Education 316 or 420 or 422. **Three hours per week.**

429. TEACHING MUSIC IN THE SECONDARY SCHOOL 3 hours credit

Methods and materials of music teaching in grades 7-12. The areas of emphasis are vocal, instrumental, and general music. **Prerequisite:** Music 200. **Three hours per week.**

432. MEASUREMENT AND EVALUATION 3 hours credit

A study of the purposes and procedures of measuring and evaluating characteristics of students, e.g., achievement, with particular emphasis on classroom decision-making in terms of instructional objectives and teacher-constructed tests. **Three hours per week.**

435. GUIDANCE 3 hours credit

A basic course in the principles of guidance and related pupil personnel services, including the meaning and purpose of guidance and common adjustment problems. **Three hours per week.**

436. VOCATIONS: DEVELOPMENT AND APPRAISAL 3 hours credit

Surveys vocational choice with emphasis on

developmental theory. Occupational information and the appraisal of vocational interests are emphasized. **Three hours per week.**

437. MATERIALS AND METHODS IN CAREER EDUCATION 3 hours credit

Rationale for and methods of career education in elementary and secondary schools. Emphasis is given to the identification of psychological and philosophical bases, identification of researchable problems, implications and implementation of careers curricula. **Three hours per week.**

438. PRODUCING SLIDE-TAPE PROGRAMS IN EDUCATIONAL SETTINGS 3 hours credit

This course is designed to foster slide-tape production skills in school situations. Students work individually in planning and producing slide-tape shows. Emphasis given to single and multi-image techniques. **Three hours per week.**

439. SINGLE CAMERA VIDEO-TAPING IN EDUCATIONAL SETTINGS 3 hours credit

This course is designed to foster TV/VTR production skills in school situations. Students work in teams in planning and producing videotapes. Emphasis given to portable single camera equipment. **Three hours per week.**

446. INTRODUCTION TO EARLY CHILDHOOD EDUCATION 3 hours credit

An introduction to curriculum and methods in early childhood education, including theories, practices, techniques and materials. **Three hours per week.**

447. EXPERIENCES AND MATERIALS FOR EARLY CHILDHOOD 3 hours credit

Experiences for development of young children through use of materials and appropriate activities. **Three hours per week.**

450. SOCIAL STUDIES IN EARLY CHILDHOOD EDUCATION 3 hours credit

Exploration, use of and evaluation of materials, methods and activities in social studies for young children. **Three hours per week.**

451. MATHEMATICS IN EARLY CHILDHOOD EDUCATION 3 hours credit

Exploration, use of and evaluation of materials, methods, and activities in mathematics for young children. **Three hours per week.**

452. SCIENCE IN EARLY CHILDHOOD EDUCATION 3 hours credit

A study of the methods and materials used in teaching science at the early childhood level. Experiences are provided in motivation, procedure and evaluation of science lessons. **Three hours per week.**

453. COMMUNICATION ARTS IN EARLY CHILDHOOD EDUCATION

3 hours credit

Using a developmental approach, stressing enrichment in free and directed play, talking and listening skills and experimental learning, language acquisition of normal and disadvantaged children emphasized. **Three hours per week.**

454. COMPOSITION: CURRICULUM AND METHODS

3 hours credit

An investigation of (1) selected public school composition curricula, and (2) a number of methodologies for teaching composition. Participants evaluate curricula and methodologies on criteria developed from (1) current literature on the writing process, and (2) Continuing Education Department association with public schools. **Prerequisite:** At least one course in composition beyond 101.

460. METHODS AND CURRICULUM FOR TEACHING THE MENTALLY RETARDED

3 hours credit

A survey of problems related to the development of teaching methods and curriculum for the retarded including current program adaptations and special methods. **Three hours per week.**

461. SEMINAR: TEACHING THE MENTALLY RETARDED

3 hours credit

Individual research on problems of teaching the mentally retarded with discussion of techniques and approaches for meeting these problems is the focus of the course. **Three hours per week.**

464. TEACHING MATHEMATICS TO THE MENTALLY RETARDED

3 hours credit

A study of the methods and materials used in teaching mathematics to the mentally retarded with a stress on adaptations of current curriculum materials. **Prerequisite:** Education 311. **Three hours per week.**

475. METHODS AND MATERIALS IN ENVIRONMENTAL EDUCATION

3 hours credit

A course designed to increase the individual's awareness of his immediate environment with the aim of developing a broad philosophy of environmental education. Existing teaching methods and materials will be analyzed and new methods will be developed for use in interdisciplinary problem-focused situations. **Three hours per week.**

480. TEACHING CHILDREN WITH SPECIAL NEEDS

3 hours credit

Introductory instruction in the observation, identification and management of children, K-12, with mild to moderate learning problems. **Three hours per week.**

485. DIAGNOSTIC-PRESCRIPTIVE TEACHING

3 hours credit

Designed to teach knowledge and skills in two areas; (1) diagnostic—the collection of information concerning children with special

learning and behavioral needs; (2) interventions—developing an instructional plan based upon the specific assessment data. **Prerequisite:** Education 480 or Psychology 423, or equivalent. **Three hours per week.**

490. SPECIAL PROBLEMS AND PRACTICES IN EDUCATION

Variable 1-6 hours credit

Individually designed programs including seminars, workshops and courses in curriculum development, planning, evaluation, specialized areas of study for purposes of enrichment, in-depth study of special problems and/or professional practices in education. **Prerequisite:** Permission of department chairman.

491. INDEPENDENT STUDY

Variable 1-3 hours credit

Designed to permit self-study of problems not considered in other courses. **Prerequisites:** Approval of course instructor and department chairman.

495. SPECIAL PROBLEMS AND PRACTICES IN ART EDUCATION

3 hours credit

A contractual course designed for regular classroom and art teachers K-12/K-6/7-12. Individual programs of study in the areas of daily planning, curriculum development, seminars, workshops and project techniques. Students will furnish some materials. Recommended for senior undergraduate or graduate credit. This course may be taken twice, under different course subtitles recorded with the registrar.

500. HISTORICAL AND SOCIAL FOUNDATIONS

3 hours credit

Selected topics in intellectual and educational history from the time of ancient Greece to the present. The relation of education to historic traditions and social trends. **Three hours per week.**

501. THE SCHOOL IN WESTERN CULTURE

3 hours credit

The student will develop understanding of the comparative dynamics of educational systems in various countries. The criteria for such comparison will be developed as part of the course. Broad cultural themes will be examined in relation to educational practices. **Three hours per week.**

502. INTRODUCTION TO RESEARCH

3 hours credit

An introduction to the methods of scientific inquiry. Gaining experience in the use of research in defining a problem and in collecting, organizing and presenting information on it. **Three hours per week.**

503. CLASSROOM MANAGEMENT

3 hours credit

This course will aid teachers in developing practical skills needed to manage their classes more effectively. Recent research related to

effective management techniques and its application in classrooms will be considered. Appropriate management strategies will be selected, implemented and evaluated in the classroom. **Three hours per week.**

505. THE LAW AND PROFESSIONAL NEGOTIATIONS

3 hours credit

A study of professional negotiations from the point of the teacher or other public employees in service. Materials are taken from rapidly developing labor law in the public sector with special emphasis given to operation of the Maryland professional negotiations law for teachers. **Three hours per week.**

506. SEMINAR IN TEACHING OF MATHEMATICS

3 hours credit

Analysis of recent theory and results of research for the teaching of mathematics. Students investigate developments at either the elementary or secondary school level. **Three hours per week.**

508. SEMINAR: RESEARCH IN HUMAN DEVELOPMENT

3 hours credit

A survey of research techniques and findings in the field of human growth and development, with emphasis on recent investigations. **Prerequisites:** Psychology 210 and Education 300 or equivalent. **Three hours per week.**

510. SEMINAR: RECENT ISSUES IN EDUCATION

3 hours credit

Analysis of selected recent issues in education for critical study. Each student is required to survey and critically evaluate pertinent research on at least one issue. **Three hours per week.**

511. CRITICS OF EDUCATION

3 hours credit

An analysis of the validity of criticism of education. In-depth reading of contemporary authors will furnish the basis for critiques and discussion in a seminar format. **Three hours per week.**

512. PROBLEMS OF TEACHING SOCIAL STUDIES

3 hours credit

Analysis of theory and research in the social sciences as applied to developing and teaching the social studies at either the elementary or secondary school level. **Three hours per week.**

513. SEMINAR IN THE TEACHING OF SCIENCE

3 hours credit

Analysis of recent advances in the teaching of science and the development of skills in applying these to classroom teaching at the elementary or secondary school level. **Three hours per week.**

514. SEMINAR IN CURRICULUM CONSTRUCTION

3 hours credit

A study of the factors underlying the public school curriculum and its development. Opportunities are provided for individual research in curriculum construction at either the elementary or secondary school level. **Three hours per week.**

516. PUBLIC SCHOOL ADMINISTRATION

3 hours credit

An analysis of the responsibilities of the school administrator including procedures for staff organization, in-service training, curriculum development, scheduling, guidance, and other facets of school administration. **Three hours per week.**

517. PUBLIC SCHOOL SUPERVISION

3 hours credit

A study of the nature, methods, and techniques of public school supervision emphasizing human relationship and other factors involved in the role of the supervisor. **Three hours per week.**

520. THE DIAGNOSIS OF READING DISABILITIES

3 hours credit

Designed for professional personnel seeking specialization in clinical diagnostic techniques. Includes collection and analysis of reading behavior and examines various instruments and strategies for collection of data on children with reading disabilities. **Prerequisites:** Education 420 or 422. **Three hours per week.**

521. THE REMEDIATION OF READING DISABILITIES

3 hours credit

Designed for professional personnel seeking specialization in clinical-remedial techniques. Includes transfer of diagnostic data into teaching strategies and materials for programs of remediation. **Prerequisite:** Education 520. **Three hours per week.**

522. CLINICAL PRACTICUM IN READING

3 hours credit

Designed for professional personnel seeking advanced work in clinical diagnostic and remedial techniques. Includes diagnosis and remediation of children with severe reading disabilities. Emphasizes collection and analysis of test data and development of instructional programs for the severely disabled. **Prerequisite:** Education 521. **Three hours per week.**

523. ADVANCED SEMINAR IN READING EDUCATION

3 hours credit

A survey of the literature in reading education dealing with trends, needs, and future directions in such topics as early identification, diagnostic techniques, remediation, severe reading disabilities, linguistics, learning modalities, and others. **Prerequisite:** Education 522. **Three hours per week.**

530. DIRECTED RESEARCH

3 hours credit

Preparation of optional research project in master's degree program under direction of departmental supervision.

535. THE ROLE OF THE SUPERVISING TEACHER

3 hours credit

A study of recent trends in teaching and supervising student teachers. Emphasis is given to evaluating the total teaching-learning situation and to organizing and planning the instructional program. **Three hours per week.**

536. CREATIVITY IN EARLY CHILDHOOD EDUCATION 3 hours credit

An in-depth study of the creative process and of techniques that will promote creativity. **Three hours per week.**

537. SEMINAR IN EARLY CHILDHOOD EDUCATION 3 hours credit

Critical evaluation of developments occurring in early childhood education, as well as antecedents of modern practices. Review of pertinent research influencing shifts in ideas, practices, and policies. **Prerequisite:** 1 course in early childhood education. **Three hours per week.**

540. COUNSELING THEORY AND PRACTICE 3 hours credit

Introduction to the theories and techniques of counseling applicable to the counselor's work in the public school. Students will become familiar with current personality theories as applied to counseling. Techniques of conducting interviews are included. **Prerequisite:** Basic guidance course. **Three hours per week.**

541. GUIDANCE TECHNIQUES IN ELEMENTARY SCHOOL 3 hours credit

A study of the role of the guidance specialist in the elementary school. Emphasis on current approaches to providing pupil personnel services for children from kindergarten through grade six. For teachers, supervisors and potential counselors. **Prerequisite:** Introductory guidance course. **Three hours per week.**

542. GUIDANCE TECHNIQUES IN SECONDARY SCHOOL 3 hours credit

A study of the role of the guidance specialist in the secondary school. Emphasis on current approaches to providing personal, educational, vocational guidance to youth from grades seven through twelve. For teachers, supervisors, and potential counselors. **Prerequisite:** An introductory guidance course. **Three hours per week.**

543. SUPERVISED PRACTICUM IN GUIDANCE 3 hours credit

Participation in a guidance program at the grade level of interest to the student counselor. Regular conferences with the counseling supervisor are held. Critiques of tape recorded interviews are made. **Prerequisites:** Teaching experience, at least nine hours of guidance related course work including counseling theory and practice, and consent of the instructor.

545. DEVELOPMENT, LEARNING, AND INSTRUCTION IN THE SCHOOLS 3 hours credit

The identification of classroom problems and issues related to and involving instruction, the development and application of strategies to aid in resolving issues and solving problems, and the coordination of student characteristics and environmental factors to improve the quality of learning experiences in the schools. **Three hours per week.**

590. SEMINAR IN EDUCATION 3 hours credit

A course in which topics will vary from semester to semester. **Prerequisite:** Consent of instructor.

598. COUNSELING WITH MINORITY GROUPS 3 hours credit

A seminar-workshop course designed to focus attention on philosophy and method of dealing with current social problems of race, religion and disadvantaged in the public schools. **Prerequisites:** College degree and teaching experience.

ENGLISH

402. HIGH SCHOOL AND COLLEGE JOURNALISM 3 hours credit

Journalism for advisors to newspapers and yearbooks. Principles of news writing, editing, advertising, copy writing, and layout. **Prerequisite:** English 216 or consent of instructor. **Three hours per week.**

403. PUBLIC RELATIONS 3 hours credit

Principles and techniques of professional public relations practice. Publicity writing, speeches, graphics, audio-visual media, public relations research, and program planning. **Prerequisite:** English 216 or consent of instructor. **Three hours per week.**

411. CHAUCER (Author) 3 hours credit

Chaucer's major works with emphasis on *The Canterbury Tales*. Not open to students who have taken English 432. **Prerequisite:** English 102. **Three hours per week.**

414. ELIZABETHAN AND JACOBAN LITERATURE (Period) 3 hours credit

Major British literature from 1500 to 1660, exclusive of Shakespeare. Not open to students who have taken English 434. **Prerequisite:** English 102. **Three hours per week.**

419. SHAKESPEARE (Author) 3 hours credit

The major comedies and histories; emphasis on the tragedies. Not open to students who have taken English 405. **Prerequisite:** English 102. **Three hours per week.**

420. RESTORATION- 18TH CENTURY BRITISH LITERATURE (Period) 3 hours credit

British literature from 1660 through the Neo-Classical Age. Not open to students who have taken English 436. **Prerequisite:** English 102. **Three hours per week.**

421. ROMANTIC LITERATURE (Period) 3 hours credit

British literature of the Pre-Romantic and Romantic periods. Not open to students who have taken English 438. **Prerequisite:** English 102. **Three hours per week.**

425. VICTORIAN LITERATURE (Period) 3 hours credit

Major British Literature during the reign of

Queen Victoria. Not open to students who have taken English 440. **Prerequisite:** English 102. **Three hours per week.**

426. COLONIAL AMERICAN LITERATURE (Period) 3 hours credit

American literature from the beginnings to 1820. **Prerequisite:** English 102. **Three hours per week.**

427. THE AMERICAN RENAISSANCE (Period) 3 hours credit

The Transcendental Movement and its literature, 1830-1870. Emphasis on works of Emerson, Thoreau, Hawthorne, Melville, Whitman, and Dickinson. **Prerequisite:** English 102. **Three hours per week.**

428. AMERICAN SOUTHERN RENAISSANCE - 1930-1950 3 hours credit

A study of fiction produced in the South between 1930 and 1950. Identification of the causes of the flourishing of art in this period and place examined. Writers studied are chosen among Glasgow, Faulkner, O'Connor, Welty, Porter, Warren, Percy, Capote, Taylor, Grau, Styron, and Young. General Education literature credit. **Prerequisite:** English 102. **Three hours per week.**

429. THE USES OF LANGUAGE 3 hours credit

The referential, persuasive, literary, and expressive uses of language. Emphasis on the purpose, nature, structure, and style of the four areas. **Prerequisite:** English 102. **Three hours per week.**

430. CLASSICAL AND MODERN RHETORIC 3 hours credit

The principles and history of rhetoric from its beginning to the present. Attempts to develop a new rhetoric. **Prerequisite:** English 102. **Three hours per week.**

431. A SURVEY OF MODERN GRAMMARS 3 hours credit

An historical approach to the descriptions of language: the traditional, the structural, the transformational, and the tagmemic. Not open to students who have taken English 422. **Prerequisite:** English 102. **Three hours per week.**

433. LANGUAGE AND CULTURE 3 hours credit

A linguistic approach to the history of the language; the evolution of English from perspectives of dialectology, lexicography and semantics; phonological, morphological, and syntactic changes. Not open to students who have taken English 423. **Three hours per week.**

435. VARIETIES IN LANGUAGE 3 hours credit

Speech variation of people according to geographical areas, socio-economic education levels, levels of formality, age, sex, and occupation. Emphasis on Eastern Shore patterns of

speech. Field methods. Not open to students who have taken English 424. **Prerequisite:** English 225 or consent of instructor. **Three hours per week.**

437. HISTORY OF THE ENGLISH LANGUAGE 3 hours credit

The development of modern English; the internal changes in pronunciation, structure, vocabulary, and usage with reference to the external history. **Prerequisite:** English 225 or consent of instructor. **Three hours per week.**

439. SECOND LANGUAGE/DIALECT LEARNING 3 hours credit

Approaches to second language and dialect learning; teaching English to speakers of other languages; the question of standard English as a second dialect. **Prerequisite:** English 225 or 431, or consent of instructor. **Three hours per week.**

441. ADVANCED COMPOSITION 3 hours credit

The forms of discourse and the theory and practice of writing, primarily for teachers of writing. Not open to students who have taken English 415. **Prerequisite:** English 102. **Three hours per week.**

443. EUROPEAN LITERATURE: MEDIEVAL THROUGH ROMANTIC 3 hours credit

A study of major works of continental European literature written between 1200 and 1800, the Medieval through the Romantic periods. Among the writers to be read are Dante, Boccaccio, Cervantes, Goethe, Rousseau, Hugo, and Pushkin. **Prerequisite:** English 102. **Three hours per week.**

448. 20TH CENTURY EUROPEAN NOVEL (Period) 3 hours credit

The later 20th century European novel in its experimental forms. **Prerequisite:** English 102. **Three hours per week.**

449. EUROPEAN LITERATURE: REALISM THROUGH EARLY MODERNISM 3 hours credit

A study of the development of realism, naturalism, and early modernism in the 19th and early 20th centuries' European novel and drama. Among writers to be read are Stendahl, Balzac, Dostoevsky, Tolstoy, Zola, Ibsen, Proust, and Mann. **Prerequisite:** English 102. **Three hours per week.**

450. PHILOSOPHICAL CONCEPTS IN LITERATURE 3 hours credit

This course involves an examination of a philosophical theme (e.g., existentialism, tragedy) as reflected in works of literature. The theme to be treated will vary from offering to offering. This course may be taken twice under different course sub-titles recorded with the registrar. **Prerequisites:** English 102 and one previous philosophy course, or consent of instructor. **Three hours per week.**

451. ENGLISH DRAMA (Genre)**3 hours credit**

The works of major British dramatists from the Elizabethan through the Neo-Classical period (excluding Shakespeare). Not open to students who have taken English 401. **Prerequisite:** English 102. **Three hours per week.**

452. MODERN DRAMA (Genre)**3 hours credit**

Continental, British, and American drama, including the Irish Renaissance, from Ibsen to Pinter. Not open to students who have taken English 402. **Prerequisite:** English 102. **Three hours per week.**

453. MODERN POETRY (Genre)**3 hours credit**

Continental, British and American poetry from Yeats through World War II and trends of the genre. Not open to students who have taken English 408. **Prerequisite:** English 102. **Three hours per week.**

454. CONTEMPORARY POETRY (Genre)**3 hours credit**

Continental, British and American poetry from World War II to the present. **Prerequisite:** English 102. **Three hours per week.**

457. AMERICAN NOVEL I (Genre)**3 hours credit**

Major American novels from the beginning through World War I. Not open to students who have taken English 406. **Prerequisite:** English 102. **Three hours per week.**

458. AMERICAN NOVEL II (Genre)**3 hours credit**

Major American novels between World War I and World War II. **Prerequisite:** English 102. **Three hours per week.**

459. CONTEMPORARY AMERICAN LITERATURE (Period)**3 hours credit**

American literature from 1945 to the present. **Prerequisite:** English 102. **Three hours per week.**

460. BRITISH NOVEL I (Genre)**3 hours credit**

The British novel from its beginnings through the 18th century. Not open to students who have taken English 417. **Prerequisite:** English 102. **Three hours per week.**

462. BRITISH NOVEL II (Genre)**3 hours credit**

The British novel of the 19th and early 20th centuries. Not open to students who have taken English 418. **Prerequisite:** English 102. **Three hours per week.**

464. MODERN BRITISH NOVEL (Genre)**3 hours credit**

The British novel from Joyce to the present. **Prerequisite:** English 102. **Three hours per week.**

470. LITERARY CRITICISM**3 hours credit**

The history of literary criticism and its application to literature. Not open to students who have taken English 409. **Prerequisite:** Three literature courses beyond English 102. **Three hours per week.**

490. TOPICS IN ENGLISH**3 hours credit**

Intensive study in a literary genre, figure, or period or in language, writing, film, or journalism. May be repeated for credit in different areas of study. **Prerequisite:** English 102 or consent of instructor.

500. SEMINAR: MAJOR AMERICAN WRITERS OF THE NINETEENTH CENTURY**3 hours credit**

A thorough study of the works of two writers from among Emerson, Thoreau, Hawthorne, Melville, Whitman, Twain, James, and Crane. This course may be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

501. SEMINAR: MAJOR AMERICAN WRITERS OF THE TWENTIETH CENTURY**3 hours credit**

A thorough study of the works of two writers from among Frost, Eliot, Fitzgerald, O'Neill, Faulkner, Hemingway, Steinbeck, Williams. This course may be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

502. SEMINAR IN ENGLISH LITERATURE I**3 hours credit**

A study of selected topics in English literature from the beginnings to 1660. From time to time the course will concern itself with major authors, genres, and literary themes. This course may be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

503. SEMINAR IN ENGLISH LITERATURE II**3 hours credit**

A study of selected topics in English literature from the Restoration and Romantic periods. From time to time the course will concern itself with major authors, genres, and literary themes. This course may be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

504. SEMINAR IN ENGLISH LITERATURE III**3 hours credit**

A study in selected topics in English literature of the Victorian and modern periods. From time to time the course will concern itself with major authors, genres, and literary topics. This course may be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

508. CONTEMPORARY LITERATURE**3 hours credit**

A study of selected contemporary work exemplary of the character of contemporary writing. Reading is done in the novel, drama,

the short story, and poetry. This course may be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

509. SEMINAR IN LANGUAGE STUDY**3 hours credit**

A study of selected topics in language and linguistics. The course focuses in different semesters on such topics as the new English, descriptive or historical linguistics, morphology-syntax, or phonetics and phonemics, teaching standard English to speakers of other languages, or standard English to speakers of other dialects. This course may be repeated under different course subtitles recorded with the registrar. **Prerequisite:** English 225 or 422 or consent of instructor. **Three hours per week.**

530. DIRECTED RESEARCH**3 hours credit**

Preparation of optional research project in master's degree program under department supervision.

531. THESIS**3 hours credit****FRENCH****401. ADVANCED COMPOSITION****AND MORPHOLOGY 3 hours credit**

A course designed to bring together on an intense advanced level all the principles of morphology, syntax, sentence development, and sentence structure through translation and advanced composition. **Prerequisite:** French 211. **Three hours per week.**

402. ADVANCED CONVERSATION**3 hours credit**

A course designed to provide greater flexibility in the spoken language by intense oral practice to correct the defects of pronunciation and diction. **Prerequisite:** French 220 or consent of department chairman. **Three hours per week.**

405. SPECIAL PROBLEMS IN FRENCH**1-3 hours credit**

Individual study of special areas in French linguistics or in French literature with the advice and direction from a member of the department. **Three hours per week.**

411. MEDIEVAL AND RENAISSANCE THOUGHT IN FRENCH LITERATURE**3 hours credit**

A study of the major phenomena of French literary history from its dawning in 843 to the negative implication in the term "Dark Ages," through to the optimism of the early renaissance in Rabelais to its decline in Montaigne. **Three hours per week.**

412. THE CLASSICAL PERIOD & THE**"AGE OF REASON" 3 hours credit**

A study of the principal classical themes found in the works of Corneille, Racine, Moliere, La Fontaine, LaBruyere,

La Rochefoucauld, and Montesquieu, Voltaire, Diderot, and Rousseau. **Prerequisite:** French 320 or 321 or consent of department chairman. **Three hours per week.**

415. ROMANTICISM, REALISM, AND NATURALISM**3 hours credit**

A study of the development of romanticism from Chateaubriand to Victor Hugo as well as a detailed study of the terms "romanticism," "realism," and "naturalism" and their effect on the 19th century as seen through representative works of Stendhal, Flaubert, Balzac, and Zola. **Prerequisite:** French 320 or 321 or consent of department chairman. **Three hours per week.**

416. CONTEMPORARY FRENCH LITERATURE**3 hours credit**

A study of contemporary ideologies and underlying currents of symbolism, surrealism, existentialism, and the "nouveau roman" through representative works of Camus, Sartre, Appolinaire, Cocteau (prose and drama) and of Proust, Gide, Butor, and Robbe-Grillet. **Prerequisite:** French 320 or 321 or consent of department chairman. **Three hours per week.**

GEOGRAPHY AND REGIONAL PLANNING**400. REGIONAL GEOGRAPHY OF EASTERN EUROPE AND THE SOVIET UNION****3 hours credit**

A general treatment of the physical and cultural patterns of eastern Europe and the Soviet Union showing interrelationships and emphasizing those regions in rapid transition. Some attention is directed to the geographical foundations of Soviet international relations. **Three hours per week.**

403. REGIONAL AND HISTORICAL GEOGRAPHY OF THE MEDITERRANEAN LANDS**3 hours credit**

An analysis of the geographic unity and complexity of the lands bordering the Mediterranean Sea. Contemporary problems are considered in their geographic setting. **Three hours per week.**

405. URBAN GEOGRAPHY**3 hours credit**

An analysis of the spatial distribution of urban settlements, their internal structure and characteristics. Emphasis is placed on techniques of analysis, and on the development of theoretical concepts and general principles. Special attention is given to contemporary urban problems and urban planning. **Prerequisite:** Geography 203 or consent of instructor. **Three hours per week.**

406. REGIONAL PLANNING**3 hours credit**

An analysis of the spatial incidence of economic growth. Emphasis is placed on the spatial dimension as an important considera-

tion in the theory and practice of economic development planning. **Prerequisite:** Geography 203 or consent of instructor. **Three hours per week.**

407. INDUSTRIAL LOCATION

3 hours credit

An analysis of the major factors influencing industrial location decisions and the spatial arrangement of industrial activity. Emphasis is placed on the development of theoretical concepts and general principles. Some attention is given to regional and city industrial development planning. **Prerequisite:** Geography 203 or consent of instructor. **Three hours per week.**

408. URBAN PLANNING

3 hours credit

An examination of theories and strategy approaches to urban development and land use planning along with techniques for evaluation. An assessment of the urban planning process with case studies. **Prerequisite:** Geography 203 or consent of instructor. **Three hours per week.**

411. GEOMORPHOLOGY

3 hours credit

This course deals with landform analysis. Treatment is given to the agents of erosion and deposition—water, wind, and ice, and to the internal forces which leave visible evidence on the earth's surface. **Prerequisite:** Geography 200 or consent of instructor. **Four hours per week and four one-day and one three-day field trips.**

413. CLIMATOLOGY

3 hours credit

An analysis of climatic elements and their control. Consideration is given to climatic classifications and the distribution of climatic types. **Prerequisite:** Geography 201 or consent of instructor. **Four hours per week.**

415. SELECTED PROBLEMS

3 hours credit

Independent study designed to permit research or in-depth work on a selected topic. Specific topic will be indicated on the transcript. May be taken twice for credit. **Prerequisite:** Twelve hours in geography and consent of instructor.

422. READINGS IN GEOGRAPHY

3 hours credit

Readings designed to permit in-depth study of a selected topic. Specific topic will be indicated on transcript. May be taken twice for credit. **Prerequisite:** Twelve hours in geography and consent of instructor.

450. TOPICS IN GEOGRAPHY

3 hours credit

An analysis of selected systematic and/or regional topics. A single theme will be considered and will be entered on the student's transcript. May be taken three times for credit. **Prerequisite:** Consent of instructor. **Three hours per week.**

475. FIELD PROBLEMS IN GEOGRAPHY

6 hours credit

In-field geographic research experience.

Emphasis is on actual field experience that involves the development of a research proposal, data collection and analysis, and the integration of such in a formal research paper. **Prerequisite:** Consent of instructor.

500. GEOGRAPHICAL INFLUENCES IN AMERICAN HISTORY

3 hours credit

A study of the geographical influences affecting the historical growth and development of North America from colonial times to the present. **Prerequisite:** Geography 206 or consent of instructor. **Three hours per week.**

502. SEMINAR: ANGLO-AMERICA

3 hours credit

An analysis of selected problems concerning the physical and human geography of Anglo-America. Topics selected with the consent of instructor. **Prerequisite:** Geography 206 or consent of instructor. **Three hours per week.**

503. SEMINAR: REGIONAL AND HISTORICAL GEOGRAPHY OF EUROPE

3 hours credit

An analysis of selected problems concerning the physical, political and historical geography of Europe. Topics selected with consent of instructor. **Prerequisite:** Geography 304 or consent of instructor. **Three hours per week.**

504. SEMINAR: PHYSICAL GEOGRAPHY

3 hours credit

A seminar dealing with current problems in areas of meteorology, climatology, soils, geomorphology and vegetation. Topics selected with consent of instructor. **Prerequisite:** Consent of instructor. **Three hours per week.**

530. DIRECTED RESEARCH

3 hours credit

Preparation of optional research project in master's degree program under departmental direction.

GEOLOGY (See Physical Sciences)

HEALTH

401. COMMUNITY HEALTH

3 hours credit

A study of the factors involved in improving public health, including a survey of community health problems and resources, and the role of the teacher in community health. **Three hours per week.**

HISTORY

400. HISTORY OF MARYLAND

3 hours credit

A study of Maryland history and government from the colonial period to the present. The course places special stress on the leaders, institutions, and contributions made in Maryland and by Maryland to the nation. **Three hours per week.**

401. AMERICAN DIPLOMACY

3 hours credit

An historical study of the foreign relations of the United States and the resultant diplomatic negotiations from 1776 to the present. **Three hours per week.**

405. THE UNITED STATES IN THE TWENTIETH CENTURY I

3 hours credit

Populism to 1932. A study of the political, economic, intellectual and social problems attending America's rise to world power later in the 19th century, her involvement in World War I, the changes attending that conflict and the problems of the 1920's. **Three hours per week.**

406. THE UNITED STATES IN THE TWENTIETH CENTURY II

3 hours credit

F. D. Roosevelt to the present. A study of the efforts of the United States to resolve the complex problems of the 1930's intensified by the Great Depression, its involvement in World War II, and struggles to maintain peace in the post-war world. **Three hours per week.**

407. THE WESTWARD MOVEMENT

3 hours credit

A study of the Westward Movement from the Atlantic to the Trans-Allegheny and Trans-Mississippi West, with emphasis upon the influence of the frontiers in shaping American civilization. **Three hours per week.**

408. HISTORY OF THE SOUTH

3 hours credit

A history of the South from the colonial period to the present, covering developments in politics, economics, culture and society. **Three hours per week.**

409. RECENT TRENDS AND DEVELOPMENT IN LATIN AMERICA

3 hours credit

An examination of the important political, economic and military changes in Latin America, particularly those of the twentieth century. **Three hours per week.**

411. PROBLEMS IN LATIN AMERICAN HISTORY

3 hours credit

Readings, reports, and discussion of historical problems of Latin American development. **Three hours per week.**

412. SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES I (1600-1875)

3 hours credit

(See course description in History 413.)

413. SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES II (1876 to present)

3 hours credit

These courses are a study of American thought as reflected by the people and leaders. The development of American heritage is covered from the Colonial Period to the present, with emphasis upon the intellectual, social, religious, and economic movements. The first course covers from the Colonial Period to Reconstruction and the second course from

about 1876 to present. **Three hours per week.**

417. HISTORY OF SCIENCE AND TECHNOLOGY

3 hours credit

A survey of the evolution of scientific achievements and technology in the western world, with particular emphasis on the cultural, economic and social implications of these developments. **Prerequisites:** History 101, 102. **Three hours per week.**

421. EUROPE IN THE TWENTIETH CENTURY WORLD

3 hours credit

A study of the economic, social, intellectual, and political development of Europe, viewed in the context of world wars, depression, and conflicting political ideologies, showing the decline of European dominance and the rise of America and Asia. **Prerequisites:** History 101, 102. **Three hours per week.**

423. RUSSIA: RISE TO IMPERIAL POWER

3 hours credit

A study of Russia from its beginnings to the reign of Nicholas II, with emphasis upon its eastward expansion. **Prerequisites:** History 101, 102. **Three hours per week.**

424. TWENTIETH CENTURY RUSSIA: REPRESSION, REVOLUTION AND CONSOLIDATION

3 hours credit

A study of Russia from the reign of Nicholas II with emphasis upon its changing role in world affairs. **Prerequisites:** History 101, 102. **Three hours per week.**

426. HISTORY OF SOUTHERN ASIA

3 hours credit

A study of the Indian sub-continent and adjacent regions, their social development, the evolution of Hinduism and Buddhism, the Islamic, Mongol, and British conquests, the rise of nationalism, and the status of the region today. **Prerequisites:** History 101, 102. **Three hours per week.**

430. READINGS IN HISTORY

3 hours credit

A readings course in history for students who have achieved above average in at least eighteen hours of history courses. This course may be taken twice, under different course titles recorded with the registrar. **Three hours per week.**

437. HISTORY OF EUROPEAN IDEAS

3 hours credit

A survey of the western intellectual tradition, beginning with its heritage from the ancient world, and emphasizing the main currents of European thought from the Middle Ages to the present. Particular emphasis will be placed on the rise of a spirit of free inquiry, the development of a scientific attitude, and the growth of a distinct intellectual class. **Prerequisites:** History 101, 102. **Three hours per week.**

440. MINORITY GROUPS IN UNITED STATES HISTORY 3 hours credit

Attention is given to the role and contribution of minority groups in general, with special emphasis on some of the larger and older minority groups. **Three hours per week.**

445. BLACK AMERICAN HISTORY 3 hours credit

A study of the life and role of the Black American from the Colonial period to the present. **Three hours per week.**

450. SELECTED PROBLEMS IN EUROPEAN THOUGHT AND CULTURE, 1700-1840 3 hours credit

Readings and discussion in this course will focus on intellectual currents in England, France and Germany in the 18th and early 19th centuries. Works of contemporary writers will be examined in the context of social and political developments. **Prerequisites:** History 101, 102. **Three hours per week.**

460. HISTORY OF CHINA SINCE 1800 3 hours credit

The revolutionary transformation of China from the nineteenth century to the present, with emphasis on the impact of imperialism, the profound effects of western technology and foreign policy wrought by the history of her relations with the west. **Prerequisites:** History 101, 102. **Three hours per week.**

470. HISTORY OF THE EARLY ROMAN EMPIRE 3 hours credit

An intense study of particular institutions and movements in Roman history. Emphasis on family history and social and religious trends during the early imperial period of Roman history. **Prerequisites:** History 101 and 102. **Three hours per week.**

472. STUDIES IN CLASSICAL ARCHAEOLOGY 3 hours credit

Assorted topics and archaeological sites of the ancient Mediterranean world (Crete, Greece and Italy) will be examined. Course may be taken twice under different subtitles. **Prerequisite:** History 101, 102. **Three hours per week.**

490. STUDIES IN HISTORY 3 hours credit

An intensive historical study of particular periods; groups; economics; intellectual, cultural, social movements, and/or institutions. This course may be taken twice, under different course titles recorded with the registrar.

502. SEMINAR: COLONIAL AND REVOLUTIONARY AMERICA 3 hours credit

A study of colonial institutions and the American Revolutionary movement. Emphasis is placed upon the study of specific topics through individual research projects. This course may be taken twice, under different course subtitles recorded with the registrar. **Three hours per week.**

503. SEMINAR IN NINETEENTH CENTURY AMERICA 3 hours credit

This seminar offers an opportunity to the student to explore in-depth 19th century American society, via themes selected by the instructor. This course may be taken twice, under different course subtitles recorded with the registrar. **Three hours per week.**

504. SEMINAR IN EUROPEAN HISTORY 3 hours credit

A seminar designed to enable the student to explore, through intensive research, basic problems in European history. The period or topics to be studied will be selected by the instructor. This course may be taken twice, under different course subtitles recorded with the registrar. **Three hours per week.**

505. SEMINAR: MARYLAND HISTORY 3 hours credit

A seminar designed to acquaint students, through readings and research, with some of the major problems and developments in the history of Maryland. This course may be taken twice, under different course subtitles recorded with the registrar. **Three hours per week.**

506. SEMINAR IN TWENTIETH CENTURY AMERICA 3 hours credit

A seminar enabling the student to explore intensively specific periods and/or problems in this century through individual research. This course may be taken twice, under different course subtitles recorded with the registrar. **Three hours per week.**

508. SEMINAR IN AMERICAN DIPLOMACY 3 hours credit

A seminar permitting students to investigate, through reading and research, selected problems in the history of American diplomacy. This course may be taken twice, under different course subtitles recorded with the registrar. **Three hours per week.**

510. SEMINAR IN LATIN AMERICAN HISTORY 3 hours credit

An intensive study of major institutions and specific periods in Latin America through reading and research. This course may be taken twice, under different course subtitles recorded with the registrar. **Three hours per week.**

530. DIRECTED RESEARCH 3 hours credit

Preparation of optional research project in master's degree program under direction of departmental supervision. **Three hours per week.**

531. THESIS 3 hours credit

LEISURE STUDIES

460. LEISURE: THEORY AND POLICY 3 hours credit

An in-depth analysis of the theoretical constructs which constitute the field of leisure. Emphasis will be placed on the inter and multi-

disciplinary nature of the issues as well as the policy implications of the varied disciplines. **Three hours per week.**

MATHEMATICAL SCIENCES

402. THEORY OF NUMBERS 3 hours credit

Basic concepts: integers, prime numbers, divisibility, congruences and residues. **Prerequisite:** Math 201. **Three hours per week.**

406. GEOMETRIC STRUCTURES 3 hours credit

An axiomatic development of incidence, ordered incidence, affine and absolute geometries; investigation of Euclidean and non-Euclidean geometries. **Prerequisite:** Math 201. **Three hours per week.**

413. MATHEMATICAL STATISTICS I 3 hours credit

Axioms and algebra of probability, discrete and continuous random variables and their probability distribution, multivariate distributions, limit theorems. **Prerequisite:** Math 310. **Three hours per week.**

414. MATHEMATICAL STATISTICS II 3 hours credit

Methods of estimating, properties of estimators, hypothesis testing, linear models, least squares, analysis of variance, enumerative data, nonparametric statistics. **Prerequisite:** Math 413. **Three hours per week.**

431. POINT SET TOPOLOGY 3 hours credit

Topological spaces, homeomorphisms, compactness, metric spaces, connectedness and other topics. **Prerequisite:** Math 306 or 310. **Three hours per week.**

441. ABSTRACT ALGEBRA 3 hours credit

An introduction to the theory of groups, rings, integral domains and fields, including basic properties of polynomials. **Prerequisite:** Math 306 or 310. **Three hours per week.**

451. ANALYSIS I 3 hours credit

Modern abstract analysis including such topics as topology of the real number system, sequences, continuity and differentiability. **Prerequisite:** Math 310. **Three hours per week.**

452. ANALYSIS II 3 hours credit

A continuation of Analysis I including such topics as the Riemann-Stieltjes integral, sequences of functions, and Lebesgue Theory. **Prerequisite:** Math 451. **Three hours per week.**

461. DIFFERENTIAL EQUATIONS 3 hours credit

Frobenius series solutions, regular and singular points, existence and uniqueness theorems for the initial-value problem; systems of equations; the boundary-value problem; other topics. **Prerequisite:** CALC IV (Math 311). **Three hours per week.**

465. MATHEMATICAL MODELS AND APPLICATIONS 3 hours credit

Mathematical basis for model building; examples of simple models for uncomplicated systems in biology, psychology, business and other fields, finite markov processes; models for growth processes. **Prerequisite:** Math 306. **Three hours per week.**

480. DATA BASE MANAGEMENT SYSTEMS 3 hours credit

Study of the design, implementation, and application of Data Base Management Systems. Several commercially-available systems will be examined. **Prerequisite:** Experience with File-Design Concepts (Math 382 or 385). **Three hours per week.**

483. SOFTWARE SYSTEMS II 3 hours credit

Analysis of the operating system, the program which supervises the activity of the computer. Resource allocation will be emphasized. **Prerequisite:** Math 383 and 385. **Three hours per week.**

487. MICROCOMPUTER APPLICATIONS 3 hours credit

Microcomputers and their applications to instrumentation, data-logging and process control. Offered at undergraduate level on P/N basis. Traditional letter grade used in assigning graduate credit. **Prerequisite:** Familiarity with a microcomputer at the machine level (Math 281). **Two hours lecture and two hours lab per week.**

490. SPECIAL TOPICS 3 hours credit

For the student who wishes to study in certain specialized areas such as complex variables, logic, non-euclidean geometry, or other topics suggested by faculty or students. This course may be taken twice, under different course subtitles recorded by the registrar. **Prerequisites:** (For most topics) Math 306 and 310.

500. FOUNDATIONS OF NUMBER THEORY 3 hours credit

Designed for teachers of arithmetic with emphasis on the development of real number system in Elementary Number Theory. **Prerequisite:** One course in college mathematics or consent of instructor. **Three hours per week.**

501. COMPUTER SCIENCE FOR MATH & SCIENCE TEACHERS 3 hours credit

Study of microcomputers, advanced programming concepts, and other topics appropriate to secondary school teachers of Mathematics and Science. **Prerequisite:** Ability to design and write clear programs (Math 181).

506. SELECTED TOPICS 3 hours credit

Designed for students with a major in mathematics to develop topics in mathematics not included in the undergraduate program or to extend areas previously studied. **Prerequisite:** Approval of the department.

507. SEMINAR: ALGEBRA 3 hours credit

A seminar dealing with selected topics from linear and abstract algebra. A seminar paper is required. **Prerequisite:** Approval of the department.

508. TRANSFORMATION GEOMETRY 3 hours credit

A study of the group-theoretic structure of geometry. Application of isometries, similarities and affine transformations to Euclidean geometry. **Prerequisite:** Math 406 or equivalent.

530. DIRECTED RESEARCH 3 hours credit

Preparation of optional research project in master's degree program under direction of departmental supervision.

590. SPECIAL PROBLEMS IN MATHEMATICS 3 hours credit

Individually designed programs including summer workshops and special seminars. Specific topic will be indicated on transcript. This course may be taken twice, under different course subtitles recorded with the registrar. **Prerequisite:** Consent of instructor.

MUSIC

400. RENAISSANCE AND BAROQUE MUSICAL STYLES 3 hours credit

Philosophy, musical forms and styles of the period 1500-1750, study of representative vocal and instrumental music by outstanding composers of the period. **Prerequisite:** Music 104 or approval of department chairman. **Three hours per week.**

401. MUSICAL STYLES OF THE 18th and 19th CENTURIES 3 hours credit

Philosophy, musical forms and styles of the period 1750-1900, study of representative vocal and instrumental music by outstanding composers of the period. **Prerequisite:** Music 104 or approval of department chairman. **Three hours per week.**

408. MODERN MUSIC 3 hours credit

Emergence of new developments from late romantic music through serial and electronic music, including influences of jazz and considering the effects of social forces and current world events. (Prerequisite: Music 104 or equivalent. **Three hours per week.**

409. INTRODUCTION TO ETHNOMUSICOLOGY 3 hours credit

The study of music of world cultures not associated with the traditional study of Western art music with emphasis on the musics of Eastern Europe, the Near, Middle, and Far East, Africa, the Pacific Islands, and native America. **Prerequisites:** Music 104 or 110 and 200 or approval of instructor. **Three hours per week.**

411. CHURCH MUSIC 3 hours credit

Designed for the practicing or potential church musician. A practical course dealing with all aspects of the church music program.

Prerequisite: Approval of the instructor. **Three hours per week.**

411, 412. APPLIED MUSIC I AND II 3 hours credit each

An advanced course in performance technique using a wide variety of literature. A solo recital (alone, or sharing a program with other students) encompassing music of many styles and periods is a required culmination. Students will elect one performing medium (piano or voice or organ or other instrument) and must have completed the fourth course in the sequence for that instrument as a prerequisite. Each course may be repeated for credit once. **Three hours per week and a minimum of 12 individual practice hours per week.**

416. AMERICAN MUSIC 3 hours credit

Analysis of musical forces and styles as they reflect the nation's development and America's unique contributions to the growth of music as an art form. **Prerequisite:** Music 104 or equivalent. **Three hours per week.**

417, 418. CLASS PIANO V AND VI 2 credit hours each

Continuation of technical and performance skills from Piano IV. For students who require additional study to qualify for Applied Music or for those who wish to continue study below the Applied Music level. **Prerequisite:** Piano IV or written approval of instructor.

423, 424. CLASS VOICE V AND VI 2 credit hours each

Continuation of vocal and performance skills from Voice IV. For students who require additional study to qualify for Applied Music or for those who wish to continue to study below the Applied Music level. **Prerequisite:** Voice IV or written approval of instructor.

426. ARRANGING FOR VOICES AND INSTRUMENTS 3 hours credit

Fundamental techniques of scoring for various a cappella and accompanied voice combinations, scoring for orchestra, band and various instrumental combinations, special characteristics of each choir of instruments, range of voices, selection of suitable literature for treatment in different ensembles, with considerations of style. **Prerequisites:** Theory IV (or concurrent registration with Theory IV). **Three hours per week.**

429. MUSIC CONCEPTS FOR EARLY CHILDHOOD 3 hours credit

Melodic and rhythmic elements within the cognitive, physical and aural capabilities of young children (nursery school through primary grades), use of simple creative application to reinforce music concepts. **Prerequisite:** Music 200 or approval of instructor. **Three hours per week.**

430. MUSIC CONCEPTS FOR ELEMENTARY SCHOOL 3 hours credit

Development of musical skills, with emphasis on part-singing, piano accompaniments, combined rhythms, conducting skills, and

creative application of these skills appropriate for the elementary school. **Prerequisite:** Music 200 or consent of the instructor. **Three hours per week.**

431. MUSIC CONCEPTS IN SECONDARY SCHOOL GENERAL MUSIC 3 hours credit

Selection and application of appropriate materials and techniques to develop musical concepts, skills, knowledge, judgement and discrimination in adolescents. **Prerequisite:** Music 200 or consent of instructor. **Three hours per week.**

435. CHORAL LITERATURE 3 hours credit

Class investigation and evaluation of choral music for all voice combinations appropriate for elementary through senior high school and adult ensembles. **Three hours per week.**

440. MODERN MARCHING BAND: TECHNIQUES AND MATERIALS 3 hours credit

A detailed work survey of traditional marching band styles and their adaptation to current trends. **Prerequisite:** Approval of the instructor. **Three hours per week.**

441. INSTRUMENTAL LITERATURE 3 hours credit

Class investigation and evaluation of new methods and materials for bands, orchestras, and instrumental ensembles. **Prerequisite:** Approval of the instructor. **Three hours per week.**

450. STUDIES IN MUSIC 3 hours credit

Study of a single composer or musical form or performance medium or technique or topic in music education. The topic will differ from semester to semester. This course may be taken twice, under different course subtitles recorded with the registrar. Possible prerequisite(s) listed according to topic by semester. **Three hours per week.**

490. DIRECTED INDEPENDENT STUDY 1-3 hours credit

A tutorial course in any area of music open to senior and graduate students. May include continuation of a skills development program begun in the lower level independent study course, or any type of individual research in music not normally included in courses offered by the department, or individual study of an area needed for teacher certification but not offered by the department in the current semester. Approval in writing of department chairman and supervising faculty member prior to registration, with the area of study to be specified in writing. May be repeated for a maximum of 6 credits, under different course subtitles recorded with the registrar.

500. TWENTIETH CENTURY MUSIC 3 hours credit

Analysis of the manner in which melody, rhythm, harmony, form and orchestral instruments are used by major modern composers.

Political, economic and social forces and current world events are considered for their effects on music of our time. **Three hours per week.**

505. MUSIC HISTORY AND MUSICAL STYLE 3 hours credit

The development of Western musical style is traced from early written records to the present, stressing the continuity of basic musical principles. **Prerequisite:** One course in music history or a stylistic period. **Three hours per week.**

510. RECENT ISSUES AND TRENDS IN MUSIC EDUCATION 3 hours credit

Student researched seminar presentations on pertinent current issues in general, vocal, and instrumental music education. The seminar presentations will, through researching current trends, arrive at conclusions compatible with current practices in music education. **Prerequisites:** Education 419 and 429 or equivalent. **Three hours per week.**

511. ADVANCED APPLIED MUSIC 3 hours credit

Individual studio instruction to provide a graduate extension to an undergraduate major performing area.

512. ADMINISTRATION AND SUPERVISION IN SCHOOL MUSIC 3 hours credit

A course dealing with the need and purpose of supervision in music. Areas of concentration include factors affecting the learning process, curriculum building, fiscal management, evaluation and staff-community relations. **Three hours per week.**

515. ADVANCED CHORAL CONDUCTING 4 hours credit

A course designed for the practicing choral conductor. Includes techniques, stylistic interpretation, repertoire and organizational problem analysis. **Prerequisite:** Music 310 or equivalent. **Five hours per week (3 hours lecture and 2 hours laboratory).**

520. PHILOSOPHICAL AND PSYCHOLOGICAL PERSPECTIVES IN MUSIC EDUCATION 3 hours credit

A review of philosophical tenets and psychological principles as applied to contemporary music education practices, including the standard and recently developed musical aptitude and achievement tests. **Prerequisite:** Graduate status. **Three hours per week.**

530. DIRECTED RESEARCH IN MUSIC/ MUSIC EDUCATION 3 hours credit

Preparation of optional research project in the M.Ed. program under the direction of departmental faculty. **Weekly conference with faculty sponsor.**

590. DIRECTED INDEPENDENT STUDY 1-3 hours credit

An individual, graduate tutorial course

including research topics not covered in available courses. The written specified area of study must have written approval of the department chairman and supervising faculty member prior to registration. May be repeated for a maximum of three hours credit, under different course subtitles recorded with the registrar.

PHILOSOPHY

402. THE PROBLEM OF GOD 3 hours credit

This course involves an effort to think through the ultimate questions philosophy asks about God's nature and existence. Attention will be given to a variety of themes, including the relationship between God and nature, the personhood of God, atheism, and the meaningfulness of human speech about God. **Prerequisite:** One philosophy course, or consent of instructor. **Three hours per week.**

403. EXISTENTIALISM 3 hours credit

A close look at the basic human problems of self, God and others as seen from the existentialist perspective. Major themes of alienation, authenticity, freedom, commitment, and dread are traced from their roots in the 19th century philosophies of Kierkegaard and Nietzsche to contemporary expressions by Sartre, Camus, Heidegger and Buber, et al. **Prerequisite:** One philosophy course, or consent of instructor. **Three hours per week.**

406. PHILOSOPHY OF SCIENCE 3 hours credit

A critical examination of the philosophical problems common to the natural sciences, such as the nature of scientific laws and theories, and problems involved in scientific explanation. **Prerequisite:** One philosophy course or consent of instructor. **Three hours per week.**

450. PHILOSOPHICAL CONCEPTS IN LITERATURE 3 hours credit

This course involves an examination of a philosophical theme (e.g., existentialism, tragedy) as reflected in works of literature. The theme to be treated will vary from offering to offering. This course may be taken twice, under different course subtitles recorded with the registrar. **Prerequisite:** English 101, 102 and one philosophy course, or consent of instructor. **Three hours per week.**

475. SEMINAR IN PHILOSOPHY 3 hours credit

The content of this course varies from semester to semester. It seeks to offer to advanced students in philosophy an opportunity to research and reflect on an issue or theme more thoroughly and intensely than is possible in an ordinary course. May be repeated for credit with faculty approval. **Prerequisite:** Consent of instructor. **Three hours per week.**

490. INDEPENDENT STUDY 3 hours credit

A tutorial course in a specific problem in philosophy, a particular philosopher, or a particular period of philosophy. Open to junior, senior and graduate students, conditional on

faculty member's consent. This course may be taken twice under different course subtitles recorded with the registrar. **Three hours per week.**

PHYSICAL EDUCATION

406. ADMINISTRATION AND ORGANIZATION 3 hours credit

Problems of administrative structure and procedure, program planning, organization of physical education classes and departments, and organization of athletic programs. **Prerequisite:** Admission to Professional Education Program or equivalent. **Three hours per week.**

408. MOVEMENT EDUCATION 3 hours credit

Analysis of the elements of human movement, with practical applications to the teaching of physical education in grades K through 12. Methods, materials, historical development, readings, practice. **Prerequisite:** Admission to Professional Education Program or equivalent. **Three hours per week.**

451. PSYCHO-SOCIAL ASPECTS OF PHYSICAL EDUCATION 3 hours credit

The interaction of physical education (sports) with the psychological and sociological development of the individual. **Prerequisite:** Psychology 210 or consent of instructor. **Three hours per week.**

460. DANCE WORKSHOP 3 hours credit

Theory and practice of dance forms used in public school physical education—children's rhythmic activities, modern dance, folk, square and tap dance. Designed as a three-weeks' summer school course for teachers. **Prerequisite:** Teaching experience or consent of instructor.

490. SELECTED TOPICS IN PHYSICAL EDUCATION 1-3 hours credit

Provides opportunities for short term needs and interests of students and/or faculty. Also affords avenue for curriculum experimentation and innovation. May be taken twice, under different course subtitles recorded with the registrar. **Prerequisite:** Consent of instructor.

PHYSICAL SCIENCES

499. SPECIAL TOPICS IN CHEMISTRY, PHYSICS OR GEOLOGY 3 hours credit

A study of a specific area of physical science. The topic will vary from semester to semester. The course may be taken twice for credit, under different course subtitles recorded with the registrar. **Three hours per week.**

500. THE ROLE OF SCIENCE IN MODERN CIVILIZATION 3 hours credit

An historical consideration of the development of the scientific approach and a critical analysis of its continuing role in modern civilization. **Three hours per week.**

503. ADVANCED PHYSICAL SCIENCE I 3 hours credit

A study of selected basic concepts of physical science in the areas commonly encountered in elementary and general science teaching. Areas of study include atomic structure, radiation and nuclear energy. **Prerequisite:** Science 101, 105 or equivalent. **Two hours lecture and one two-hour laboratory per week.**

504. ADVANCED PHYSICAL SCIENCE II 3 hours credit

A study of selected basic concepts of physical science in areas commonly encountered in elementary and general science teaching selected from the areas of systematic and applied organic chemistry. **Prerequisite:** Science 101, 105 or equivalent. **Two hours lecture and one two-hour laboratory per week.**

POLITICAL SCIENCE

401. POLITICAL THEORY 3 hours credit

A survey of political thought based on the analysis of ideas of leading ancient, medieval and modern theorists including the historical setting of major theories, their impact on political institutions and social changes, and their contemporary significance. **Prerequisite:** Political Science 201. **Three hours per week.**

402. AMERICAN POLITICAL THEORY 3 hours credit

A survey of the political concepts of the leading American theorists and the impact of these concepts on the American society from the colonial period to the present. **Prerequisite:** Political Science 201. **Three hours per week.**

409. THEORY OF INTERNATIONAL RELATIONS: CONFLICT AND WAR 3 hours credit

This course is designed to acquaint students with the major theories of international relations, especially those concerned with explaining international conflict. The major questions to be studied are: Why do nations go to war? How can war be prevented? Once war is begun, how can it be limited and terminated? **Prerequisite:** Nine hours of social sciences. **Three hours per week.**

411. INTERNATIONAL LAW 3 hours credit

A survey of the general principles and special rules of international law as well as its recent trends and its relations to other aspects of international affairs. **Prerequisite:** Political science 201. **Three hours per week.**

412. GOVERNMENT AND POLITICS OF LATIN AMERICA 3 hours credit

A comparative study of politics and governments in selected countries in Latin America. **Three hours per week.**

415. COMPARATIVE ASIAN POLITICAL SYSTEMS 3 hours credit

A study of the structure and evolution of political institutions in China, Japan, Korea, and other selected Asian nations since World

War II with emphasis upon political modernization, ideology, and nationalism. **Prerequisite:** Political Science 201. **Three hours per week.**

420. INTERNATIONAL ORGANIZATION 3 hours credit

A study of the bases of international organization and factors influencing their development, and considering also the functions and problems of such organizations as well as the future of the world community. **Prerequisite:** Political Science 201. **Three hours per week.**

430. LEGISLATIVE PROCESS IN THE UNITED STATES 3 hours credit

An inquiry into the structural characteristics and functions of Congress and state legislatures. Factors that affect legislative decision making will also be given careful consideration. **Prerequisite:** Political Science 201. **Three hours per week.**

431. LOCAL GOVERNMENT IN THE UNITED STATES 3 hours credit

An examination of county, metropolitan and municipal governments with emphasis on a description of these political subsystems, their place in the federal system, and the relationship between the socio-economic environment, governmental structure and public policy. **Prerequisite:** Political Science 201. **Three hours per week.**

500. PROBLEMS OF WORLD POLITICS 3 hours credit

A study of the political problems and issues among the nations, such as propaganda, causes of war, armaments control, and neutrality, which affect the peace and security of the United States and other nations. **Three hours per week.**

510. SEMINAR IN AMERICAN GOVERNMENT 3 hours credit

A seminar designed to examine contemporary problems in governing the American nation. This course may be taken twice under different course subtitles recorded with the registrar. **Three hours per week.**

PSYCHOLOGY

403. MEASUREMENT AND EVALUATION IN PSYCHOLOGY 3 hours credit

A coverage of correlational techniques, reliability and validity. Psychological tests and questionnaires are considered in terms of their measurement assumptions and utility. **Prerequisite:** Psychology 220 or consent of instructor. **Three hours per week.**

405. ABNORMAL PSYCHOLOGY 3 hours credit

A survey of the etiology, diagnosis and prognosis of neurosis, psychosis, psychosomatic disorders, transient situational maladjustments and personality disorders. Included will be a discussion of various treatment approaches. **Prerequisite:** Psychology 210. **Three hours per week.**

406. PSYCHOLOGY OF ATTITUDES AND ATTITUDE CHANGE 3 hours credit

This course is concerned with how attitudes are formed, measured, and changed. Emphasis will be placed on the classical theories and on new approaches to attitude formulation and change. **Prerequisite:** Psychology 306 or consent of the instructor. **Three hours per week.**

407. PSYCHOLOGY OF PERSONALITY 3 hours credit

A survey of major theoretical approaches to the origin and development of human personality. **Prerequisite:** Psychology 210. **Three hours per week.**

408. HISTORY AND SYSTEMS IN PSYCHOLOGY 3 hours credit

Study of basic integrating theories of psychology. **Prerequisite:** Psychology 211 or consent of the instructor. **Three hours per week.**

409. ENVIRONMENTAL PSYCHOLOGY 3 hours credit

A study of the effects of the environment on human behavior. Consideration will be given to such topics as organizational structure and climate, architecture, population density and urban stress. **Prerequisite:** Psychology 210. **Three hours per week.**

412. PHYSIOLOGICAL PSYCHOLOGY 3 hours credit

The investigation of morphological, neurochemical, and physiological bases of behavior. **Prerequisite:** Psychology 211. **Three hours per week.**

415. MOTIVATION AND EMOTION 3 hours credit

A survey of experimental findings and theory of processes that energize and direct behavior. **Prerequisite:** Psychology 211. **Three hours per week.**

423. PSYCHOLOGY OF THE EXCEPTIONAL CHILD 3 hours credit

A study of children who vary from the norm including the gifted, physically handicapped, mentally handicapped, socially handicapped, emotionally disturbed. **Prerequisite:** Psychology 300 or Psychology 320 or Education 300 or consent of the instructor. **Three hours per week.**

425. PSYCHOLOGY PRACTICUM 3 hours credit

A course designed to provide the psychology major with actual training experience in a variety of clinical settings. May be taken twice. **Prerequisites:** 15 hours in psychology and consent of instructor. **Three hours per week.**

430. LEARNING THEORY AND ITS APPLICATION 3 hours credit

A course designed to acquaint students with the theoretical base and experimental data to support a unified approach to human learning. This course will also provide the student with the direct applicability of learning theory to the

education of the individual. **Prerequisite:** Education 300, Psychology 211 (or equivalent) or consent of the instructor. **Three hours per week.**

435. BEHAVIORAL SELF-CONTROL 3 hours credit

A study of learning-based procedures for the self-management of behavior. Major areas of study include contingency management principles, behavioral observation and recording, operational definitions of behavior, reliability statements, and procedures for evaluating any self-management program. **Prerequisite:** Psychology 211. **Three hours per week.**

440. PSYCHOLOGY OF WOMEN 3 hours credit

This course is concerned with sex roles, sex differences, the causes of psychological problems of women, and some possible methods of coping with the rapidly changing roles of both women and men. **Prerequisite:** Psychology 210. **Three hours per week.**

444. BASIC HELPING RELATIONSHIPS 3 hours credit

Designed to provide students with both background and skills in the use of dyadic relationship for promoting the personal growth and development of clients they will see in their future work. The course will emphasize three basic components involved in being a helper: (1) an understanding of yourself; (2) some knowledge of helping skills; and (3) experience in applying these skills. **Two hours lecture and three hours laboratory per week.**

460. INTRODUCTION TO CLINICAL PSYCHOLOGY 3 hours credit

A comparative study of the theories and practices in the treatment of mental and emotional disorders. Included are the most commonly employed analytical, neo-analytical and behavioral systems of clinical psychology as well as a survey of psychodiagnostic materials. **Prerequisite:** Psychology 210 or consent of instructor. **Three hours per week.**

462. BEHAVIOR MODIFICATION IN BUSINESS AND INDUSTRY 3 hours credit

A behavioral analysis of problems and topics taken from current business and industry journals. Additional emphasis on procedures used in leadership effectiveness programs. **Prerequisite:** Psychology 210. **Three hours per week.**

465. PRINCIPLES AND TECHNIQUES OF GROUP THEORY 3 hours credit

A study of the principles and techniques of group counseling/psychotherapy and their application. Includes a review of the psychological and historical development of group theory and a study of the pertinent research. Discussion and roleplaying are important elements of this course. **Prerequisite:** Advanced standing. **Three hours per week.**

468. THE PSYCHOLOGY OF MENTAL RETARDATION 3 hours credit

A study of the symptoms, causes, diagnosis, assessment, and treatment of mental retardation. **Prerequisite:** Psychology 210 or consent of instructor. **Three hours per week.**

480. DYNAMICS OF INDIVIDUAL BEHAVIOR 3 hours credit

A study of the psychosocial factors which underlie human behavior, with emphasis on the family atmosphere. **Prerequisite:** Psychology 210. **Three hours per week.**

490. INDIVIDUAL DIRECTED STUDY 1-3 hours credit

A course designed to enable advanced students to pursue through observation, experimentation, or library research a topic of their choosing. May be taken more than once for a maximum of six credits. **Prerequisite:** Consent of department chairman.

495. SELECTED TOPICS IN PSYCHOLOGY 1-3 hours credit

Intensive study in a psychological therapeutic technique, person, developmental period, or theory. May be repeated for credit in different areas of study to a maximum of six credit hours. **Prerequisite:** Consent of instructor.

501. A SEMINAR IN THE PSYCHOLOGY OF THE MENTALLY RETARDED 3 hours credit

A seminar enabling the students to intensively investigate specific problems in the etiology, diagnosis, assessment and treatment of the mentally retarded. **Prerequisites:** Psychology 468 and consent of instructor. **Three hours per week.**

503. BEHAVIORAL PROBLEMS IN CHILDREN AND YOUTH 3 hours credit

A study of behavior problems in children and young people ranging from mild personality disorders to psychoses. Special consideration is given to symptoms, etiology, and treatment. **Prerequisites:** Master's degree student and consent of instructor. **Three hours per week.**

504. MENTAL HYGIENE 3 hours credit

A study of the forces influencing the development of the stable and the deviate personality and how most effectively to deal with these factors. **Prerequisite:** Psychology 210 or consent of the instructor. **Three hours per week.**

505. PERSONALITY ASSESSMENT 3 hours credit

A survey of the techniques of personality evaluation including questionnaires, situational tests, attitude scales and interviewing procedures. **Prerequisites:** Psychology 520 and consent of instructor. **Three hours per week.**

507. PSYCHOTHERAPY AND COUNSELING 3 hours credit

A study of the philosophical and psycho-

logical assumptions and fundamental practices of the major approaches to psychotherapy and counseling in modification of human behavior. **Prerequisite:** Consent of instructor. **Three hours per week.**

511. DIAGNOSTIC TESTS IN COUNSELING 3 hours credit

A study of diagnostic tests in counseling and their relationship to therapeutic procedures in order to better understand clients and to improve effectiveness. **Prerequisite:** Master's degree student. **Three hours per week.**

515. SEMINAR IN ADOLESCENT BEHAVIOR 3 hours credit

This course will cover current issues in adolescent behavior such as: drug use, parental relationships, peer interactions and other related topics. This course will require a paper, an adolescent study, and group work in developing research tools. **Three hours per week.**

520. CLINICAL ASSESSMENT I 3 hours credit

A course dealing with three focal areas: (A) theories of intelligence; (B) administration of individual and group intelligence tests; (C) reporting of intelligence test results. **Prerequisite:** Master's degree student. **Three hours per week.**

521. CLINICAL ASSESSMENT II AND PROJECTIVE TECHNIQUES 3 hours credit

Theory, research findings and clinical applications of major testing instruments relative to the emotionally disturbed, mentally retarded, physically handicapped and brain lesioned. Projective techniques included. **Prerequisite:** Psychology 520. **Three hours per week.**

525. ADVANCED CLINICAL PRACTICUM 3 hours credit

This course is an experimental activity available to master's degree students who are interested in developing their skills in the practice of counseling and clinical activities. Students, in consultation with their advisors, will select appropriate practicum placements in relevant agency or school settings. Supervision of practicum will be provided by both the agency and the department. May be taken twice, under different course subtitles recorded with the registrar. **One hour of lecture and five hours of laboratory per week.**

530. DIRECTED RESEARCH 3 hours credit

Preparation of optional research project for students in master of education degree program concentrating in psychology. **Prerequisite:** Consent of department chairman.

531. THESIS 3 hours credit

May be repeated once for credit.

540. COMMUNITY PSYCHOLOGY 3 hours credit

This course is designed to provide knowledge in the following areas: activities a com-

munity can undertake to meet mental health needs; the concept of treating total communities rather than single patients; and the distinction between preventative and therapeutic services and ways of implementing both on a community basis. **Prerequisite:** Graduate standing. **Three hours per week.**

555. ADVANCED EXPERIMENTAL PSYCHOLOGY 3 hours credit

The assessment of designs for research questions in order to provide students with the necessary research tools to adequately determine the effectiveness of various treatment approaches. **Prerequisite:** Master's degree student. **Two hours lecture and two hours of laboratory per week.**

560. STATISTICAL ANALYSIS OF EXPERIMENTS 3 hours credit

A coverage of the statistical procedures necessary to test hypotheses. Topics to be covered will include test of a single parameter and the differences between two or more parameters. Correlation will be considered also. **Prerequisite:** Master's degree student. **Three hours per week.**

562. HUMAN DEVELOPMENT 3 hours credit

In-depth study of human growth and development. The course is geared to the graduate student who has not had developmental psychology or the psychology of infancy and childhood. Topics to be covered include: biological bases of development, learning, intellectual and moral development, language, motivation and emotion and the socialization influence of family, peers and schools. **Prerequisite:** Psychology 210. **Three hours per week.**

566. ADVANCED GROUP THEORY AND PRACTICE 3 hours credit

In this course students will receive training and knowledge in the following areas: theoretical models for groups; techniques and exercises in facilitating the group process; practice in groups and self-analysis experiences. **Prerequisite:** Psychology 465. **Three hours per week.**

570. CLINICAL BEHAVIOR THERAPY 3 hours credit

Training and practice in the application of the major behavioral approaches in clinical practice including: desensitization, assertive training, cognitive restructuring, and biofeedback. **Prerequisite:** Psychology 460. **Two hours lecture and two hours laboratory per week.**

575. GRADUATE SEMINAR ON AGING 3 hours credit

An intensive survey of some aspects of human aging. Will cover theories, retirement, middle age problems, work, leisure, physical aspects of aging, education, and opportunities for the aged. It is designed to make students sensitive to the needs of the aged, as well as to provide them with basic data. **Three hours per week.**

580. PHYSIOLOGICAL ASPECTS OF ABNORMAL BEHAVIOR 3 hours credit

This course is designed to familiarize the student with brain and nervous system actions, demonstrating how malfunctions in physiological systems correlate with behavioral abnormalities. **Three hours per week.**

SOCIAL SCIENCE

400. CURRENT PROBLEMS 3 hours credit

A study is made of either general or special topics of our times. The topics are considered from historic aspect and the present social and cultural setting in which they occur. **Three hours per week.**

SOCIAL WORK

410. ALCOHOL AND DRUGS: IMPLICATIONS FOR HUMAN SERVICES 3 hours credit

A course focusing on the various forms of alcohol and drug use with an emphasis on the stages of harmful dependence and addiction. There will be an examination of our social and legal responses to these drugs and their users, as well as approach to treatment, rehabilitation and prevention. **Prerequisite:** Social Work 375 or consent of instructor. **Three hours per week.**

420. COMMUNITY ORGANIZATION: STRATEGIES FOR CHANGE 3 hours credit

A study of various methods of social intervention utilized in promoting the development of community action in dealing with social problems. Focus will be on the role of the social worker, the interactional processes and the impact on social institutions. **Prerequisite:** Social Work 375 or consent of instructor. **Three hours per week.**

471. SOCIAL WORK METHODS I 3 hours credit

Formulation of a common base for social work practice, utilization of interviewing and communication to develop helping relationships; identifying social worker roles and modes of intervention based upon application of social work and social science knowledge. **Prerequisite:** Social Work 375 or consent of the instructor. **Three hours per week.**

472. SOCIAL WORK METHODS II 3 hours credit

Development of modes of intervention with individual, family, group and community selection; implementation and evaluation of modes of intervention to stabilize, develop and enhance social functioning of individual and family and groups. To be taken concurrently with Social Work 473. **Prerequisite:** Social Work 471 or consent of instructor. **Three hours per week.**

473. FIELD INSTRUCTION IN SOCIAL WORK I 6 hours credit

Social work practice experience achieved through placement and participation in a community service or program; available only to students approved for social intervention. Emphasis will be placed upon use of observation, communication, interviewing, and utilization of community resources so that these skills and concepts may become significant for the student as a practitioner. Taken concurrently with Social Work 472. **Prerequisite:** Social Work 471 and approval by the department. The department reserves the right to limit registration. The field experience may be terminated any time the student is not performing satisfactorily. **15 hours of field experience per week plus weekly conferences with faculty advisor.**

475. FIELD INSTRUCTION IN SOCIAL WORK II 6 hours credit

Continuation of direct experience in the delivery of social services with assigned agency and increased emphasis on relationship and interaction, data collection and assessment, treatment, termination and evaluation. To be taken concurrently with Social Work 477. **Prerequisite:** Social Work 473 and approval by the department. The department reserves the right to limit registration. The field experience may be terminated any time the student is not performing satisfactorily. **15 hours of field experience per week plus weekly conferences with faculty advisor.**

477. SOCIAL WELFARE-SOCIAL WORK SEMINAR 3 hours credit

Integration of human needs, ethical issues of intervention, values and necessity for practical solutions to social problems discovered in the field experience; exploration of current concerns within the social work profession and in selected practice across disciplines; dilemmas and problems in social welfare programs and services. To be taken concurrently with Social Work 475. **Prerequisite:** Social Work 473 or consent of instructor.

480. HUMAN SERVICE IN RURAL SETTINGS 3 hours credit

An examination of the social ecology of the rural community, the formal and informal human service delivery systems, and the network of existing and potential community resources. Special emphasis will focus on understanding the need for development of a broad range of social work practice skills. **Prerequisite:** Social Work 375 or consent of instructor. **Three hours per week.**

481. SOCIAL WORK IN SPECIAL SETTINGS 3 hours credit

Social work concepts, methods and program development in selected settings such as school, medical, correctional, family and child welfare settings; study of setting; review and analyze organizational arrangements for social work practice in these settings. **Prerequisite:** Social Work 375 or consent of instructor. **Three hours per week.**

482. SOCIAL WORK WITH MINORITY GROUPS 3 hours credit

Social work concepts, methods, values, commitments to program development for minority groups such as handicapped, blacks, migrant workers, etc.; a careful look at subcultures, situational and significant organizational arrangements for social work practice with these groups. **Prerequisite:** Social Work 375 or consent of instructor. **Three hours per week.**

484. SOCIAL WORK AND THE LAW 3 hours credit

The study of family, social welfare, and consumer law. The legal authority of social agencies and their power to make rules; and guidelines for court testimony and on rules of evidence will be included in the course of study. **Prerequisite:** Social Work 271 or consent of instructor. **Three hours per week.**

492. SOCIAL GROUP WORK 3 hours credit

This course is designed to examine theories and practice models of social group work. Three group models will be studied: Reciprocal, remedial, and social-goals. Content includes: stages of group development, goal orientation in groups; group problem-solving; leadership roles; and the role of the facilitator. Course is not open to students who have taken Social Work 499. **Prerequisite:** Social Work 471 or consent of the instructor. **Three hours per week.**

495. FAMILY INTERVENTION 3 hours credit

A course in family practice which takes a systemic and structural view of the family. Study will focus on internal and external factors which influence family function and/or dysfunction. Content includes: family developmental life cycle; member roles; implications of family history; violence in the family; skills and techniques in analyzing relationship patterns and structures. Interventive choices will also be explored. Course is not open to students who have taken Social Work 499. **Prerequisite:** Social Work 471 or consent of instructor. **Three hours per week.**

SOCIOLOGY AND ANTHROPOLOGY

405. SOCIOLOGY OF LAW 3 hours credit

A study of formal legal statements as communications both reflecting and influencing life in society. Selected examples of the conflict between legality and social reality, with attention to both substantive and procedural issues of law; consideration of possible solutions. **Three hours per week.**

409. SOCIOLOGY OF EDUCATION 3 hours credit

Analysis of public education as a bureaucratic social institution, the countervailing community power structure and the professional role of the educator. **Three hours per week.**

410. SOCIAL RESEARCH II 3 hours credit

Advanced training in methods of data collection and analysis through involvement in

practical research activity. Emphasis on the challenge of social science research, with attention to such issues as ethical restrictions on observations, communications problems in data collection, limitations of simple models. **Prerequisite:** Sociology 309, or consent of the instructor. **Three hours per week.**

414. COMMUNITY SOCIOLOGY

3 hours credit
An investigation of communities as social systems emphasizing current directions in community research. **Three hours per week.**

416. INDIVIDUAL DIRECTED STUDY

3 hours credit
Intensive, advanced study in an area of sociology available on request to sociology majors of outstanding ability. **Three hours per week.**

419. SOCIAL CHANGE AND SOCIAL PLANNING

3 hours credit
Explores why whole societies like the U.S. change. Compares contemporary industrial and developing countries by critically examining classical and current theories of sociocultural change. Considers strategies for purposeful changing of a society. **Three hours per week.**

422. CONTEMPORARY SOCIOLOGICAL THEORY

3 hours credit
An analysis of the current state and future directions of sociological theory. **Three hours per week.**

430. THE SOCIOLOGY OF HEALTH AND ILLNESS

3 hours credit
The study of social factors involved in health and illness emphasizing the institution of medicine in American society. **Three hours per week.**

435. SOCIOLOGY OF MENTAL DISORDERS

3 hours credit
The study of sociocultural factors in mental health and illness emphasizing social causation and patterns of distribution. **Three hours per week.**

440. AGING AND SOCIETY

3 hours credit
This course examines the aging process from the sociological perspective. Major emphasis is given to the position of the elderly in contemporary society. Also, some attention will be directed toward an understanding of the age-roles associated with various positions within the chronological process of aging. For example, childhood, adolescences, adulthood, old age will be investigated. **Three hours per week.**

452. COMPARATIVE CULTURES

3 hours credit
Cross-cultural survey of primitive societies with emphasis on human social differences and their meaning. Africa, Asia, North and South America, Oceania. This course will focus on cultural diversity of mankind concentrating on varying marital, religious, economic, family and social patterns. **Three hours per week.**

459. SEMINAR IN ANTHROPOLOGY:

SELECTED TOPICS 3 hours credit
Individual and group study of selected topics from the four subdisciplines of anthropology (cultural anthropology, physical anthropology, linguistic anthropology, archaeology). **Three hours per week.**

499. EXPERIMENTAL SOCIOLOGY

3 hours credit
Number reserved for courses approved by the academic council as an experimental response to student interest or community need. **Three hours per week.**

512. GRADUATE SEMINAR IN SOCIOLOGY

3 hours credit
Study and discussion of a selected topic of sociological significance, such as social movements roots of social inequality, analysis of social power or the management of conflict. **Prerequisite:** Six hours of sociology or consent of instructor. **Three hours per week.**

516. INDIVIDUAL DIRECTED STUDY

3 hours credit
Intensive study in a specific area of sociology agreed upon by student and faculty. Open only to students who have completed 6 hours in sociology and are taking a concentration in sociology. **Prerequisite:** Approval of chairman.

530. DIRECTED RESEARCH

3 hours credit
Preparation of optional research project in master's degree program under direction of a departmental supervisor. **Prerequisite:** Approval of chairman.

560. A PRACTICUM OR INTERNSHIP

1-6 hours credit
An applied sociology combination of study and work with the primary emphasis on integrating the theoretical concepts of sociology with a practical experience of work with a recognized employing unit able to provide adequate on-the-job guidance. One to six hours credit to be determined by the student and the faculty coordinator. **Prerequisite:** Nine hours in sociology and approval of chairman.

SPANISH

405. SPECIAL PROBLEMS IN SPANISH

1-3 hours credit
Individual study of special areas in Spanish linguistics such as phonetics and diction; in the history and evolution of the language; or in Spanish and Latin American literature; with advice and direction from a member of the department. May be repeated by same student with new content. **Prerequisite:** Spanish 320, or 321 or consent of department chairman.

412. SPANISH LITERATURE OF THE GOLDEN AGE

3 hours credit
Study of selected masterpieces of Spanish literature of the *Siglo de Oro*. **Prerequisite:** Spanish 320 or 321 or consent of department chairman. **Three hours per week.**

415. NINETEENTH AND TWENTIETH CENTURY SPANISH LITERATURE

3 hours credit
A study of the development of movements in Spanish literature of this period through selected works of outstanding authors. **Prerequisite:** Spanish 320 or 321 or consent of department chairman. **Three hours per week.**

417. NINETEENTH AND TWENTIETH CENTURY SPANISH AMERICAN LITERATURE

3 hours credit
A study of the major works in Spanish American literature of the 19th and 20th centuries. **Prerequisite:** Spanish 320 or 321 or consent of department chairman. **Three hours per week.**

418. CONTEMPORARY LITERATURE IN SPANISH

3 hours credit
A study of selected contemporary works in Spanish. The selection will vary from year to year. **Prerequisite:** Spanish 320 or 321 or

consent of department chairman. **Three hours per week.**

495. SPANISH FOR PROFESSIONAL AND SERVICE PERSONNEL I

3 hours credit
Students develop fluency in spoken and written Spanish. Situational dialogues in cross-cultural setting underline practical intent. Specific applicability for migrant teachers, social workers, business and hospital personnel. **Three hours per week.**

496. THE BILINGUAL, BICULTURAL CLASSROOM

3 hours credit
Preparation for those in education whose work may involve contact with students and parents from different language and cultural backgrounds, with emphasis on the problems and needs of the Spanish speaking child. Studies include cross-cultural communication; survival skills in Spanish; culturally relevant materials. **Three hours per week.**

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Ph.D., Michigan State University

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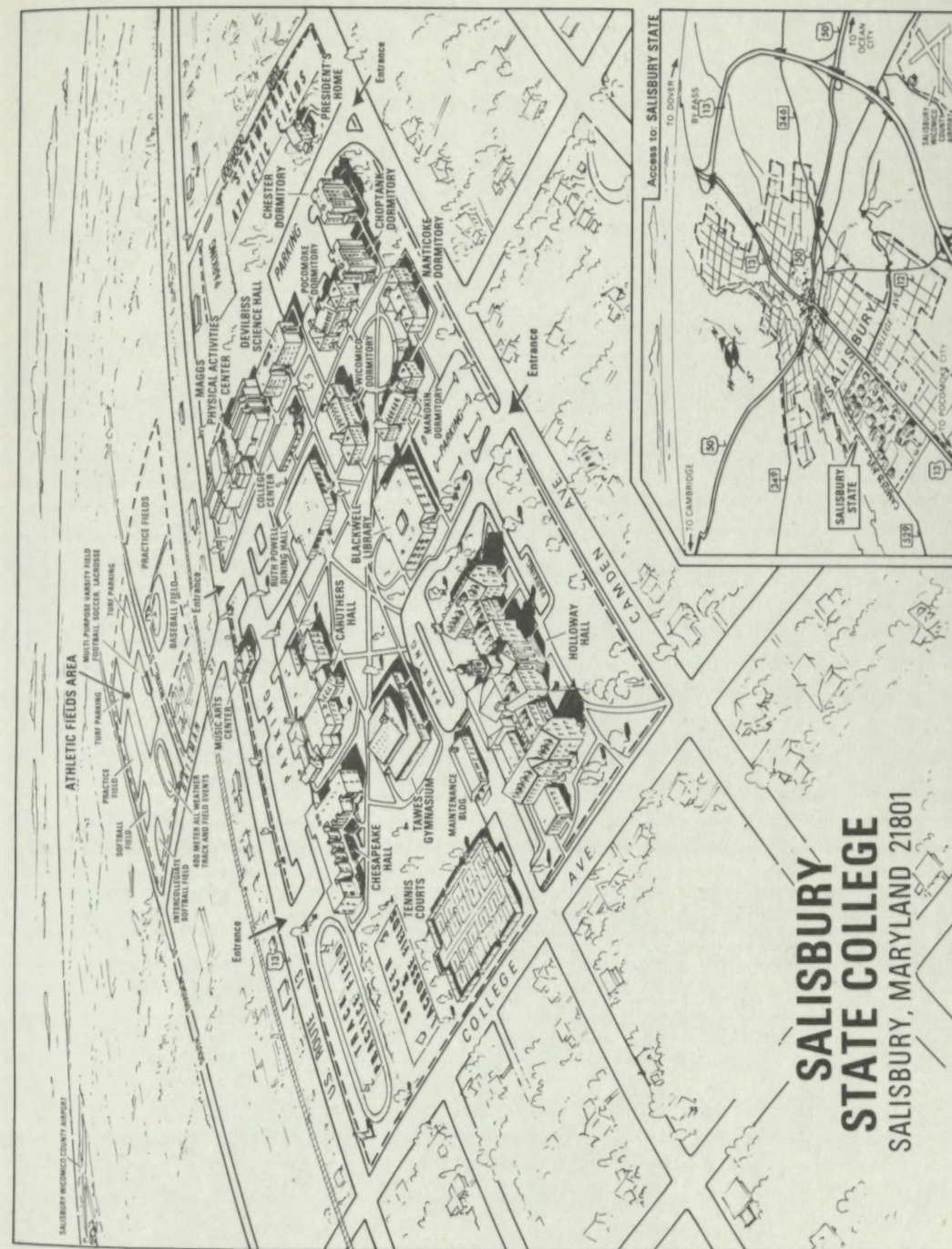
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